

ROYAL LEAMINGTON SPA.

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Urban Sanitary District.

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# ANNUAL REPORT

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OF THE

Medical Officer of Health,

1897.

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Leamington Spa :

PRINTED AT THE "COURIER WORKS," CHURCH WALK.

## HEALTH COMMITTEE.

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COUNCILLOR FRAZER (CHAIRMAN).

THE MAYOR.

ALDERMAN BRIGHT.

„ THURSFIELD.

„ WACKRILL.

COUNCILLOR BAILEY.

„ BAKER.

„ BARRETT.

„ FELL.

„ JEAFFRESON.

„ MOLESWORTH.

„ REEVE.

„ WENCH.

ACREAGE	...	...	...	...	...	2,760
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POPULATION (Census 1891)	...	...	...	26,930
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„	Estimated to middle of 1897	...	27,320
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„	Per square mile	...	6,280
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Town Sewage, pumped to Heathcote Farm.

Town Refuse, disposed of to Farmers.

Height above Sea level	...	...	...	195 feet
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Geological Formation	...	...	New Red Sandstone
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Water Supply—Artesian Wells, situated on Campion Hill, and at  
Lillington.

Respective depths	...	...	110 feet and 170 feet
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River Water is used for Watering Streets and for Flushing  
Sewers.

SANITARY REPORT  
OF THE  
**Borough of Royal Leamington Spa,**  
FOR THE YEAR 1897,

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TOWN HALL, LEAMINGTON,

3RD FEBRUARY, 1898.

TO THE CHAIRMAN AND MEMBERS OF THE  
HEALTH COMMITTEE,

GENTLEMEN,

I have the honor to present you with my Annual Report on the Sanitary condition of the Borough for the year 1897.

**Births.**

544 births (271 males, 273 females) were recorded, showing a birth rate of 19·9. Below are shown Births by Wards and Quarters.

TABLE I.

WARDS.	BIRTHS	BIRTH RATE.	ESTIMATED POPULATION, 1897
North-East .....	135	18·15	7,376
South-East .....	217	25·19	8,548
West .....	141	18·54	7,545
Milverton & Lillington	51	15·75	3,851
	544		27,320



TABLE II.

QUARTERS.	MALES.	FEMALES.	TOTALS.	BIRTH RATE.
1st	49	71	120	17·53
2nd	77	74	151	22·10
3rd	61	61	122	17·86
4th	84	67	151	22·10
Totals	271	273	544	

### Mortality and Disease.

393 deaths took place (178 males, 205 females), a decrease of 20 deaths on the previous year's figures. On balancing the 26 deaths of Leamington persons who died outside the Borough, against 34 deaths of persons who died in the Borough and not belonging thereto, the death rate is shown at 14·0 per thousand.

TABLE III.

#### MORTALITY BY QUARTERS.

QUARTERS.	TOTAL MORTALITY.							ZYMOTIC DEATHS.			DEATH RATE.
	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.	
1st	13	8	4	6	36	46	113	...	1	1	16·5
2nd	16	5	5	4	34	38	102	...	...	...	14·9
3rd	17	8	1	4	29	27	86	8	1	9	12·5
4th	12	8	3	3	29	37	92	...	1	1	13·4
Totals	58	29	13	17	128	148	393	8	3	11	

The largest number of deaths took place in the first quarter, owing to the prevalence of Influenza and Epidemic Pneumonia.

Except at ages 25—65, and 65 and upwards, deaths are all below average figures, and, but for the high figures under the heading of Debility from Birth (more than double last year's figures), deaths under one year would have been much below the average. I look to social causes and not bad sanitation to explain this. Premature births, however, have been reduced by more than one-half compared with 1896. Six deaths were caused by Diarrhœa, but I believe improper feeding will account for these.

Deaths under one year show a proportionate infantile death rate of 106·6 per thousand births—a great improvement on the numbers of last year.

28 children who died under 5 years of age were insured.

#### CAUSES OF DEATHS UNDER 5 YEARS.

Debility from Birth	...	...	...	...	25
Bronchitis and Pneumonia	...	...	...	...	10
Convulsions	...	...	...	...	10
Dentition	...	...	...	...	7
Tuberculosis, including Phthisis, Tabes Mesenterica, and Tubercular Meningitis	...	...	...	...	7
Diarrhœa	...	...	...	...	6
Premature Birth	...	...	...	...	5
Cerebro-Spinal Disease	...	...	...	...	4
Marasmus	...	...	...	...	3
Natural Causes	...	...	...	...	3
Accident	...	...	...	...	2
Whooping Cough	...	...	...	...	1
Diphtheria	...	...	...	...	1
Pyæmia	...	...	...	...	1
Intestinal Obstruction	...	...	...	...	1
Kidney Disease	...	...	...	...	1
					<hr/> 87

#### ZYMOTIC DEATHS.

Diphtheria	...	...	...	...	3
Enteric Fever (Typhoid)	...	...	...	...	1
Whooping Cough	...	...	...	...	1
Diarrhœa	...	...	...	...	6
					<hr/> 11

This shows a Zymotic death rate of 0·4 per thousand. But for the Diarrhœa cases, the Zymotic death rate would have been almost nil.

## **Small Pox.**

Fortunately this disease was not reported to me during the year.

## **Scarlet Fever (Scarlatina).**

55 cases in all were reported to me:—34 in the South-East Ward, 12 in Milverton and Lillington, 8 in the North-East Ward, and 1 in the West Ward.

44 cases were removed to Hospital. The disease was of a mild type, and, in consequence, some cases must have escaped detection; hence the extreme difficulty of completely stamping out the malady. It was not found necessary to recommend that any school should be closed. No death was reported.

A boy in Hampton Street, removed a short time before from Queen Street, was found to be “peeling.” The parent refused to notify the case or call in medical aid, and was promptly brought before the Magistrates and fined.

## **Diphtheria.**

15 cases came to my notice. Four were removed to Hospital. One case was imported from Weston. Another case occurred in a child sent from a distance to the Warneford Hospital. Three deaths took place, including one in the Warneford Hospital. In 11 houses, where the disease was reported, sanitary defects were detected by the “Smoke Test.”

## **Enteric (Typhoid) Fever.**

6 cases were reported: of these, 3 were in the Warneford Hospital, and imported from a distance. One death occurred in the South-East Ward.

The “Smoke Test” proved effectual in detecting sanitary defects in the 3 affected houses.

## **Erysipelas.**

11 cases came to my notice, only 1 of which was a chronic case, and had been reported to me before. There has been a marked decrease of this disease during the year. The greatest care has been taken to thoroughly cleanse and disinfect in all houses where Erysipelas has appeared; at the same time all sanitary defects were promptly attended to. I can vouch that in 4 instances such efforts have been effectual in preventing a return of the disease.



## Measles

Was slightly prevalent in the 1st Quarter, but no death came to my notice.

## Whooping Cough

Appeared slightly in the 3rd Quarter. One death took place in the South-East Ward.

## Diarrhœa.

6 deaths were reported in the 3rd Quarter, but, in my opinion, were not due to insanitary surroundings.

## General Sanitary Work—Improvements and Suggestions.

During the year I carried out, to the best of my ability, the instructions issued at various periods to Medical Officers of Health, by the Local Government Board.

Taken generally, the health of Leamington has been very good. The larger proportion of deaths took place in the 1st and 2nd Quarters, but even those figures are not up to the average: the Zymotic death rate keeps extremely low. The only outbreak of consequence was of Influenza and Epidemic Pneumonia at the beginning of the year.

At the end of the year the Borough was free from infectious diseases, excepting one case of Diphtheria and one of Erysipelas.

The average consumption of water per head per day was 19·3 gallons. The water supply has been augmented by the new “adits” made in the old well at Campion Hill; and the new well at Lillington, when finished, will supply 400,000 gallons per day extra.

Analyses of the water from time to time showed no impurity, and I may add that, the precautions taken to prevent any pollution at both stations, are to my mind satisfactory. I know of no instance in any house in the Borough where a connection could possibly exist between the household water supply and any drain; hence there is no danger in this respect.

When street smells have been complained of, shafts have been erected where it was possible to do so, and with gratifying results. I frequently try to catch bad odours at places complained of, but generally fail. Unfortunately, many people think that any smell in a street must of necessity proceed from a drain; and, further, if a smell be detected at any particular point only once, many would condemn that spot ever after.



I would point out that extremely few cases of the diseases which are caused by sewer gas occur in Leamington, and as my figures show, the mortality from such is remarkably small.

Under the new "Leamington Corporation Act," urinals have been placed in all Licensed and Refreshment Houses which were formerly unprovided for in this respect. Where necessary, both sexes are now provided for.

Under the "Factory and Workshops Act, 1895," many alterations in construction, ventilation and sanitation have been carried out to the satisfaction of H.M. Inspector of Factories.

New sewers were made in Newbold and Rosefield Streets, and 12-inch pipes substituted for the old brick structures.

A sewer formerly running across the Parish Churchyard was diverted to Church Walk.

At Dormer Place, a source of constant trouble to me for years, an old sewer under a block of houses was removed altogether, and the drainage taken out at the rear of the block on a proper level to prevent flooding of the cellars, &c., in times of storm.

I would much like to see every brick drain in Leamington removed, and replaced by a proper sanitary pipe drain. No doubt, in time, this will be brought about.

Table IX. gives a summary of the work done in the Health Department. It shows that this year was much the busiest year since I took office. A careful survey of the Table will repay perusal.

Under the "Housing of the Working Classes Act," 7 houses were condemned as unfit for habitation, and have been put into proper repair.

Two prosecutions under the "Food and Drugs Act," 3 for sale of unsound food, and 1 under "Infectious Diseases (Notification) Act" took place, and conviction followed in every case.

319 drain tests have been applied.

I have been satisfied with the manner in which the Inspector and the Assistant-Inspector have carried out their duties. The work has been trying for every official in this Department. I have to thank the Chairman

and the Members of the Health Committee for their ready help and suggestions during the year; and to Dr. Rice I am personally indebted for his assistance in acting for me during my absence at any time.

Everyone regrets the retirement of Dr. Eardley-Wilmot from the Chairmanship of the Pump Room Committee. But I believe that the Leamington Waters will, under any circumstances, continue as before to attract visitors to the town. Those who have tried the virtues of these waters can bear testimony that their curative effects are equal to those of any British or Continental Spa.

Our Baths, too, continue to attract, and have been kept in good working order. The ventilation of the Turkish Bath is, in my opinion, very good indeed, a most important factor in the comfort of such. The Swimming Baths are more in demand than ever, and are well looked after.

The vast improvement in our Public Gardens cannot fail to attract the notice of both visitors and residents; and the large gatherings at the open-air concerts show how the entertainments provided are appreciated.

I must of necessity refer once more to the fact that we have not yet a public Abattoir. I hope that the agitation will be carried on until the fact is accomplished.

I would like to see the Borough with its own Disinfector. Fortunately, so far, we have had no breakdown of the present system, but I can easily foresee how such could occur.

I fancy, too, that before long, we shall require a Destructor for refuse matter. Accumulations of such are not desirable in any way.

The Borough is in urgent need of a public Mortuary. At present, there is no place where a post mortem examination can be conducted in a proper and skilful manner. The present structure is a Mortuary in name only, and entirely unsuitable—exposed to public view, improperly paved, without water supply, and accommodation for only one dead body. To prevent a public scandal, this ought to be seen to without delay.

### **Meteorology.**

The Borough is again indebted to Mr. Barnitt for the Meteorological Table No. XII., which he has drawn up with his usual care and patience.

He remarks :—" There is nothing especially noticeable in the Meteorology of 1897. Rainfall is about  $2\frac{1}{2}$  inches below average, and the number of rainy days correspondingly low. On one occasion only did the fall exceed one inch.

"The fall in July is very small, compensated for by the June and August months.

"Our mean temperature for the year is about one degree above the average, and humidity below the average."

I am, Gentlemen,

Your obedient Servant,

SAMUEL BROWNE, M.D., D.P.H.,

*Medical Officer of Health.*





TABLE IV.

**NORTH-EAST WARD.**  
 Estimated Population—7,376.  
 Death Rate—12·8.

QUARTERS.	TOTAL MORTALITY.							ZYMOTIC DEATHS.		
	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.
1st	2	2	1	1	7	18	31	...	1	1
2nd	7	2	1	...	5	8	23	...	...	...
3rd	4	3	...	...	6	2	15	3	...	3
4th	3	1	1	...	11	10	26	...	...	...
Totals	16	8	3	1	29	38	95	3	1	4

TABLE V.

**SOUTH-EAST WARD.**  
 Estimated Population—8,548.  
 Death Rate—12·8.

QUARTERS	TOTAL MORTALITY.							ZYMOTIC DEATHS.		
	Under 1 year	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.
1st	6	3	1	3	11	7	31	...	...	...
2nd	2	2	...	1	12	14	31	...	...	...
3rd	5	2	...	1	6	11	25	4	1	5
4th	6	4	...	...	7	6	23	...	...	...
Totals	19	11	1	5	36	38	110	4	1	5

TABLE VI.

## WEST WARD.

Estimated Population—7,545.

Death Rate—13·2.

QUARTERS.	TOTAL MORTALITY.							ZYMOTIC DEATHS.		
	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years	5 years and upwards.	Totals.
1st	4	2	2	1	6	13	28	...	...	...
2nd	6	...	...	1	7	10	24	...	...	...
3rd	6	...	...	2	9	11	28	...	...	...
4th	4	2	2	1	2	9	20	...	1	1
Totals	20	4	4	5	24	43	100	...	1	1

TABLE VII.

## MILVERTON AND LILLINGTON WARD.

Estimated Population—3,851.

Death Rate—10·1.

QUARTERS.	TOTAL MORTALITY							ZYMOTIC DEATHS.		
	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.
1st	1	...	...	...	4	5	10	...	...	...
2nd	1	1	1	1	2	6	12	...	...	...
3rd	...	...	...	...	2	7	9	...	...	...
4th	...	2	...	...	3	3	8	...	...	...
Totals	2	3	1	1	11	21	39	...	...	...

TABLE VIII.

WARNEFORD HOSPITAL AND HOME FOR INCURABLES.

	QUARTERS.	TOTAL MORTALITY.							ZYMOTIC DEATHS		
		Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards	Totals.
Warneford Hospital.	1st	...	1	...	...	8	1	10	...	...	...
	2nd	...	...	3	1	7	...	11	...	...	...
	3rd	1	1	1	2	4	...	9	1	...	...
	4th	...	1	...	1	6	3	11	...	...	...
	Totals	1	3	4	4	25	4	41	1	...	...
Home for Incurables.	QUARTERS.										
	1st	...	...	...	1	...	2	3	...	...	...
	2nd	...	...	...	...	1	...	1	...	...	...
	3rd	...	...	...	...	1	1	2	...	...	...
	4th	...	...	...	...	1	1	2	...	...	...
Grand Totals		1	3	4	5	28	8	49	1	...	...



TABLE IX.

[illegible]



TABLE X.

Table of Deaths during the Year 1897, in the Leamington Spa Urban Sanitary District.  
 Classified according to DISEASES, AGES, and LOCALITIES.

MORTALITY FROM ALL CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																														
NAMES OF LOCALITIES adopted for the purpose of these Statistics; public institutions being shown as separate localities.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES.						Under 5 upwards	MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																						
	At all ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.		65 and upwards.	1	2	3	4	FEVERS.					10	11	12	13	14	15	16	17	18	19	20	21	22
										Smallpox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia and Pleurisy.	Heart Disease.	Injuries.	All other Diseases.	TOTAL.
North-East Ward .....	95	16	8	3	1	29	38	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	20	24	
South-East Ward .....	110	19	11	1	5	36	38	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	42	71	
West Ward .....	100	20	4	4	5	24	43	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	49	29	
Milverton & Lillington	39	2	3	1	1	11	21	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23	81	
Warneford Hospital ...	41	1	3	4	4	25	4	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	24	
Home for Incubables...	8	...	...	...	1	3	4	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	76
Totals .....	393	58	29	13	17	128	148	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	67	307	

The subjoined numbers have also to be taken into account in judging of the above records of mortality.

Deaths occurring outside the district	...	...	...	...	...	...	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
among persons belonging thereto.	26	1	...	...	13	12	5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	25
Deaths occurring within the district	...	...	...	...	...	...	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3
among persons not belonging thereto.	34	1	2	2	5	7	5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21	31



TABLE XI.

Table of POPULATION, BIRTHS, and of NEW CASES OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical Officer of Health, during the year 1897, in the Urban Sanitary District of Leamington Spa, classified according to Diseases, Ages, and Localities.

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	POPULATION AT ALL AGES.		Registered Births.	Aged Under 5 or over 5.	New Cases of Sickness in each Locality coming to the knowledge of the Medical Officer of Health.													Number of such Cases Removed from their Homes in the several localities for Treatment in Isolation Hospital.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Last Census.	Estimated to middle of 1897.			1	2	3	4	FEVERS.					10	11	12	13	1	2	3	4	FEVERS.					10	11	12	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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North-East Ward .....	7248	7376	1355	Under 5 upwards	..	8	.. 5	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..



TABLE XII.

METEOROLOGY OF LEAMINGTON, 1897.

Abstract of Meteorological Observations taken at 86, The Parade, during 1897, by J. BARNITT.

Latitude 52dg. 18 N. Longitude 1dg. 30 W. Height above the sea level, 195 feet.

The Instruments have been verified at Kew and Greenwich, and the necessary corrections have been applied for index error, capillary action, temperature and diurnal range.

Month.	Mean of Pressure 9 a.m.	AIR TEMPERATURE.						Relative Humidity.	Rainfall.		
		Means of		Absolute Maximum and Minimum.			Total Fall.		Number of days.		
		9 a.m.	Maximum. Minimum.		Maximum.	Date.				Minimum.	Date.
January .....	35.6	38.9	31.4	46.6	7th	22.9	24th	Inches. 1.937	15		
February .....	43.3	47.9	38.9	56.0	22nd	31.3	8th	3.039	13		
March .....	44.5	51.6	39.0	63.0	21st	28.11	30th	2.322	19		
April .....	44.8	54.5	38.9	66.1	28th	29.2	5th	1.606	17		
May .....	49.4	62.7	42.7	71.2	23rd	33.3	11th	1.144	9		
June .....	57.7	70.2	52.7	84.9	13th	42.6	10th	2.796	12		
July .....	61.2	74.9	54.3	83.8	15th	44.2	8th	.462	5		
August .....	60.5	72.0	54.6	88.3	2nd	47.8	26th	3.284	20		
September ...	53.9	63.5	47.2	68.8	26th	37.7	19th	1.871	11		
October .....	49.8	57.7	43.6	67.0	17th	32.9	6th	1.530	8		
November ...	45.8	51.2	40.7	59.1	13th	27.9	26th	1.486	11		
December ...	41.7	46.6	36.1	57.6	16th	24.8	23rd	1.749	15		
Totals .....	588.2	691.7	520.1					23.226	155		
Means .....	49.0	57.6	43.3					79	1.935		
									13		



